

FACSIMILE COVER PAGE

To : USPTO: Formal NEW

From : Chris Rode

Sent : 11/18/04 at 2:13:40 AM

Pages : 8 (including Cover)

Subject : IDS after Final Office Action for pending application 09/287,478

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United States Patent and Trademark Office
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Dear Sir / Madam:

Please find attached an information disclosure, PTO/SB/08a, with requisite statement and fee for pending application 09/287,478 per 37CFR1.97(d)(1) and 37CFR1.97(e)(2) for an application having received a final office action.

Thank you,

Chris Rode
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09 / 287,478 Confirmation No. 6350
Applicant : Christian S. Rode
Filed : April 6, 1999
Provisional Appl. Filed : 60 / 080,905, 4/06/98
TC./A.U. : 2123
Examiner : Thai Phan

Docket No. : RCI001v1

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

"No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in Section 1.56(c) more than three months prior to the filing (11/17/2004) of this information disclosure statement."

Gore, et al (USP 5,278,770) demonstrates the known art of generating customized SPICE input decks from user-specified data.

It would appear that at least claim 1 of Mattos, et al (USP 6,292,766) would apply to the present application,

Claim 1. In a computer system, a simulation tool input file generator, comprising:

a user interface for selecting circuit description files that describe electrical characteristics of interface circuitry in an integrated circuit chip and for entering programmable values associated with said electrical characteristics in said circuit description files, said interface circuitry comprising an input/output buffer circuit and a pad;

a simulation tool input file associated with said interface circuitry, said simulation tool input file comprising a description of said electrical characteristics and said programmable values of said input/output buffer circuit, and said pad, said electrical characteristics and said programmable values compatible with a simulation tool input protocol; and

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a simulation model generator for automatically generating said simulation tool input file corresponding to said interface circuitry on said integrated circuit chip, said simulation model generator generating said simulation tool input file by: first converting said electrical characteristics and programmable values into a file format that is compatible with said simulation tool input file protocol; and second automatically inserting resistances, inductances, capacitances and electrical characteristics required to complete a formulation of said simulation tool input file description of said interface circuitry, wherein said model generator automatically indicates in said simulation tool input file a bus connection between a plurality of said input/output buffer circuits.

The present application has as its prime example signal integrity simulation of components driving transmission lines, including bus-like configurations, and in doing so, generates intermediate simulation tool input files for simulation by SPICE. The system provides for user selection of different drivers or for a generic driver with configurable parasitics. Resistances, inductances and capacitances are part of the generated file, with the only apparent meaningful distinction from the present application being "wherein said model generator automatically indicates in said simulation tool input file a bus connection between a plurality of said input/output buffer circuits." The present application is intended to embrace all types of SPICE circuit and other simulation data within its scope, including bus circuits, although we are unsure what "special indication" would be presented for the purposes of identifying a bus.

It would appear at least claim 1 of 6,530,065 would apply to the present application, although the provisional for 6,530,065 was filed after the regular filing for the present application. Specifically, this patent claims in Claim 1 (and similarly, in claim 4):

Claim 1. A method for simulating a circuit in a client-server environment, wherein a network couples at least one client computer to a server computer, the method comprising:

at the client computer, presenting a visual display, wherein the visual display includes a visual depiction of a particular circuit having two or more components, and wherein at least one of the depicted components is linked to one or more user interface controls for receiving user input to change component characteristic data for the depicted component;

providing executable code to the client computer from the server computer;

at the server computer, generating simulation data that represents one or more characteristics of a signal that would be generated in the particular circuit during operation of the particular circuit;

sending the simulation data over the network from the server computer to the client computer;

at the client computer, generating a first simulation display based on the simulation data for operation of the particular circuit;

receiving user input at the client computer; and

at the client computer and without requesting additional simulation data from the server computer, generating a second simulation display based on the

simulation data, wherein the second simulation display displays the simulation data differently than the first simulation display, and wherein the second simulation display is generated in response to the user input and in response to executing by the client computer the executable code.

In the present invention, the simulation data is sent in the form of plot data, and a second display in response to a user interface change was specifically demonstrated in Fig 4-K. A zoom function is demonstrated using a scaled version of the identical static plot, as well as by making use of Adobe Acrobat as a target plot format (which allows zooming). It was also anticipated that the raw simulation data could be sent to a Java plotting applet for further processing, as had been widely done in many applications before the filing date of 6,530,065.

PTO/SB/7 (10-04v2)

Approved for use through 07/31/2006; OMB 0631-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL
for FY 2005

Effective 10/01/2004, Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$180

Complete if Known

Application Number	09/267,478
Filing Date	April 6, 1999
First Named Inventor	Christian S. Rode
Examiner Name	Thai Q. Phan
Art Unit	2126
Attorney Docket No.	RC1001v1

METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number: _____

Deposit Account Name: _____

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-designated deposit account.

FEE CALCULATION**1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 140	2001 305	Utility filing fee	
1002 350	2002 175	Design filing fee	
1003 500	2003 275	Plant filing fee	
1004 790	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims: _____

Independent Claims: _____

Multiple Dependent: _____

Extra Claims Fee from below: _____

Fee Paid: _____

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 83	2201 44	Independent claims in excess of 3	
1203 300	2203 150	Multiple dependent claims, if not paid	
1204 88	2204 44	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			(\$)

**For number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	2053 65	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1904 920*	1904 920*	Requesting publication of SIR prior to Examiner action	
1905 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 430	2252 215	Extension for reply within second month	
1253 980	2253 490	Extension for reply within third month	
1254 1,530	2254 765	Extension for reply within fourth month	
1255 2,080	2255 1,040	Extension for reply within fifth month	
1401 340	2401 170	Notice of Appeal	
1402 340	2402 170	Filing a brief in support of an appeal	
1403 300	2403 150	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,070	2453 535	Petition to revive - unintentional	
1501 1,370	2501 685	Utility issue fee (or release)	
1502 490	2502 245	Design issue fee	
1503 660	2503 330	Plant issue fee	
1430 130	1430 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(f)	
1808 180	1808 180	Submission of Information Disclosure Sheet	180
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1506 790	2506 395	Filing a submission after final rejection (37 CFR 1.125(a))	
1810 790	2810 395	For each additional invention to be examined (37 CFR 1.129(b))	
1801 790	2801 395	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify): _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$180**SUBMITTED BY**

Name (Print name)	Christian S. Rode	Registration No. (Advanced Agent)		Telephone	781-899-4322
Signature		Date	11/17/2004		

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